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INFORMATION REPORT	
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SUBJECT Fuze for 40 and 75 MM Anti-Aircraft Shells 32	
DATE DISTRIBUTED 4 June 1957	
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SUPPLEMENT TO REPORT # 25X1	

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THIS IS UNEVALUATED INFORMATION

1. The Soviets are still using the same fuze for 40 and 75 mm anti-aircraft shells that they used during World War II.
2. In 1955 production of this fuze was started in Hungary for the first time. Sketch is of the 75 mm fuze. The 40 mm one is proportionately smaller. The 75 mm fuze is 35 cm long and weighs 7 and one-half kg and is made of cooper. The 40 mm fuze is 28 cm long and weighs five kg. Description follows:
 - a. Pt #1 Timer ring - can be set for from one to 160 seconds.
 - b. Pt #2 Initiator for self destructing powder train.
 - c. Pt #3 Safety spring
 - d. Pt #4 Double firing pin - is a fixed position pin.
 - e. Pt #5. Safety spring.
 - f. Pt #6 Initiator for shell charge
 - g. Pt #7 Schematic of internal powder train for self destructing timer. Upper and lower powder trains are fixed. Center one is changed by rotating timer.

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Method of Operation

3. Timing ring is set and shell fired. Safety spring #3 compresses and initiator #2 is actuated starting powder train fire. This burns through upper fixed distance, then through center adjustable train, whose length has been

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determined by the timer ring rotation, then down to the lower fixed train.
If the projectile has not made contact by the time the lower train has
burned the powder will ignite initiator #6, exploding the projectile.
If the projectile should strike an object, inertia will compress spring
#5 and allow #6 to strike the firing pin, thus exploding the projectile.

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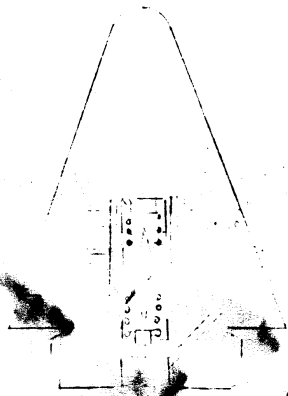
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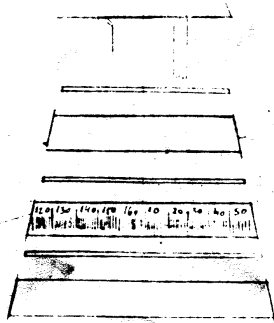
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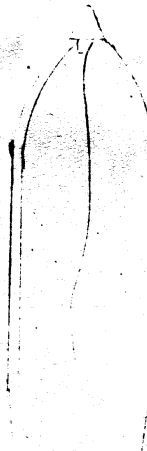
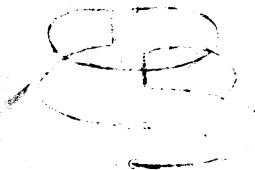
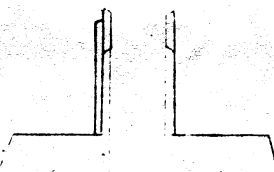
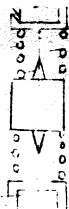


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